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ALSTON & BIRD LLP BANK OF AMERICA PLAZA 101 SOUTH TRYON STREET, SUITE 4000 CHARLOTTE, NC 28280-4000			SAINT CYR, JEAN D	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/698,600

Applicant(s)

SALO ET AL.

Examiner

JEAN Duclos SAINT CYR

Art Unit

2425

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 February 2010.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 15-18, 20-33, 35-48 and 50-73 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 15-18, 20-33, 35-48 and 50-73 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 13 October 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Miscellaneous

In response to the appeal brief filed on 02/02/2010, the finality of the last office action is withdrawn and an office action on new ground of rejection follows.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 45-48 and 50-59 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Those claims disclose a computer product program that could be a carrier wave because the applicant discloses on page 32 of the specification that "the computer program product for performing the methods of embodiments of the present invention includes a computer readable storage medium, such as the non-volatile storage medium, and computer- readable program code portions...". With the word "include", the computer readable medium can be a signal like a carrier wave.

Response to Arguments

Applicant's arguments were fully considered, and they were persuasive. Applicant argues that cited references did not disclose storing in memory pre-broadcast content before a scheduled time for broadcast of the same pre-broadcast content and accessing the pre-broadcast content from the memory no sooner than the scheduled time of that pre-broadcast content ; synchronizing the accessed at least one piece of pre-broadcast content with the same at least one piece of content broadcast by the content source, wherein presenting the accessed at least one piece of pre-broadcast content comprises presenting the synchronized at least one piece of pre-broadcast content.

However, Watson et al disclose the user is not aware of what data is being sent to their set-top box. The movies are pushed down by the provider to reside passively in the

box for a finite time period. Movies transmitted to the set-top box also come with associated information that defines certain characteristics of the movie. And the examiner introduces a new reference, Fujinami et al, disclosing each preloaded stream file stored in the receiving apparatus is synchronized with the clock transmitted from the broadcasting station to be reproduced, col.17, lines 13-16; provides the selected program to the user in synchronization with the supplied time information, col.15, lines 4-5; that means user will get access to pre-loaded content according to the schedule received from the broadcast station. This action is made non-final.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 15-18, 20-23, 25, 27, 29-33, 35-38, 40, 42,44-48, 50-53, 55, 57, 59-67, 69, 71, 73 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watson et al in view of Fujinami et al, US No. 7664951.

Re claim 15, Watson et al disclose an apparatus comprising a processor and a memory storing executable instructions that in response to execution by the processor cause the apparatus to at least perform the following(the set top box will begin power-up initialization by loading and executing boot code that resides in Flash memory,0124):

storing, in the memory, at least one piece of pre-broadcast content, the pre-broadcast content being stored before a scheduled time for broadcast of the same at least one

piece of content by a content source, the scheduled time specified by a schedule(The movies are pushed down by the provider to reside passively in the box for a finite time period,0012; A movie may arrive and be stored in the set-top box, however it may have a start date associated with it which does not allow it to be viewed until that date,0014); and

presenting the accessed at least one piece of pre-broadcast content consistent with the scheduled time for broadcast of the same at least one piece of content by the content source (see fig.4).

But did not explicitly disclose accessing at least one piece of pre-broadcast content from the memory no sooner than the scheduled time for broadcast of the same at least one piece of content.

However, Fujinami et al disclose accessing at least one piece of pre-broadcast content from the memory no sooner than the scheduled time for broadcast of the same at least one piece of content (each preloaded stream file stored in the receiving apparatus is synchronized with the clock transmitted from the broadcasting station to be reproduced, col.17, lines 13-16; that means user will get access to pre-loaded content according to the schedule received from the broadcast station).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch pre-loaded contents in real-time.

Re claim 16, Watson et al did not explicitly disclose wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: synchronizing the accessed at least one piece of pre-broadcast content with the same at least one piece of content broadcast by the content source, wherein presenting the accessed at least one piece of pre-

broadcast content comprises presenting the synchronized at least one piece of pre-broadcast content.

However, Fujinami et al disclose wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: synchronizing the accessed at least one piece of pre-broadcast content with the same at least one piece of content broadcast by the content source, wherein presenting the accessed at least one piece of pre-broadcast content comprises presenting the synchronized at least one piece of pre-broadcast content (provides the selected program to the user in synchronization with the supplied time information, col. 15, lines 4-5).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch pre-loaded contents in real-time without any delay.

Re claim 17, Watson et al disclose wherein storing at least one piece of pre-broadcast content comprises at least one piece of pre-broadcast content before the content source broadcasts the same at least one piece of content (The movies are pushed down by the provider to reside passively in the box for a finite time period, 0012).

Re claim 18, Watson et al disclose wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus (the set top box will begin power-up initialization by loading and executing boot code that resides in Flash memory, 0124) to further perform the following: receiving at least one piece of content maintained by a continuity server of a content source (the method involves transmitting movies to a set-top box; the content delivery system is responsible for delivering data to set top boxes, 0044), and

wherein storing at least one piece of pre-broadcast content comprises storing the received at least one piece of content as the at least one piece of pre-broadcast content (the method involves transmitting movies to a set-top box and allowing movies to accumulate. A hard disk drive in the set-top box is used to store movies, 0008; 0012).

Re claim 20, Watson et al disclose wherein the receiving at least one piece of content comprises receiving an encoded at least one piece of content (see fig.1, content preparation & encoding; Movies are transmitted to the set-top box using a new data casting technology which allows data to be encoded onto standard television signals and transmitted using existing television transmitters and broadcast towers, 0012) and decoding the encoded at least one piece of content, the respective at least one piece of content having been at least one of encoded or transcoded at the content source(see fig.1f, PES Decryption/De-scramble; the set top box allows for the movie to be decrypted and played, 0015).

Re claim 21, Watson et al did not explicitly disclose wherein the schedule also specifies at least one scheduled time for broadcast of at least one piece of live broadcast content by the content source, wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: receiving at least one piece of live broadcast content when a current time matches the scheduled time for broadcast of the respective at least one piece of live broadcast content, and wherein accessing at least one piece of pre-broadcast content comprises accessing at least one of at least one piece of pre-broadcast content stored in the memory or at least one piece of live broadcast content received at the apparatus, and wherein presenting the accessed at least one piece of pre-broadcast content comprises presenting at least one of the accessed at least one piece of pre-broadcast content or the accessed at least one piece of live broadcast content.

However, Fujinami et al disclose wherein the schedule also specifies at least one scheduled time for broadcast of at least one piece of live broadcast content by the content source, wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: receiving at least one piece of live broadcast content when a current time matches the scheduled time for broadcast of the respective at least one piece of live broadcast content, and wherein accessing at least one piece of pre-broadcast content comprises accessing at least one of at least one piece of pre-broadcast content stored in the memory or at least one piece of live broadcast content received at the apparatus, and wherein presenting the accessed at least one piece of pre-broadcast content comprises presenting at least one of the accessed at least one piece of pre-broadcast content or the accessed at least one piece of live broadcast content(the facilities for performing live broadcasting is now shown in the transmitting apparatus 1 shown in FIG. 8, when performing live broadcasting, the outputting of video and audio signals may be started, upon reaching a predetermined time, from a broadcast recording studio (not shown) installed in parallel to the VTR cart 14, instead of setting a VTR tape recording the program to the VTR cart 14, thereby supplying the video and audio signals to the video encoder 15 and the audio encoder 16 respectively, col.21, lines 6-14; col.13, lines 13-17).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch live programs.

Re claim 22, Watson et al disclose wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: releasing each piece of pre-broadcast content when a current time of the apparatus matches the scheduled time for broadcast of the same piece of content by the content source, wherein accessing at least one piece of pre- broadcast content comprises accessing at least one released piece of pre-broadcast content(The actual

movie content on the hard disk drive is turned over periodically, as scheduled by the digital asset manager, 0092; that means pre-stored contents are activated according to predefined schedule).

Re claim 23, Watson et al did not explicitly disclose wherein the content source broadcasts the same at least one piece of content when a current time of the content source matches the at least one scheduled time, and wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: synchronizing the current time of the apparatus with the current time of the content source.

However, Fujinami et al disclose wherein the content source broadcasts the same at least one piece of content when a current time of the content source matches the at least one scheduled time, and wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: synchronizing the current time of the apparatus with the current time of the content source(each preloaded stream file stored in the receiving apparatus is synchronized with the clock transmitted from the broadcasting station to be reproduced, col.17, lines 13-16; provides the selected program to the user in synchronization with the supplied time information,col.15, lines 4-5).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch pre-loaded contents in real-time without any delay.

Re claim 25, Watson et al disclose wherein memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: expiring each released piece of pre-broadcast content when the current

time is subsequent to the scheduled time,-and deleting, from the memory of the apparatus, at least one expired piece of pre-broadcast content(the content provider may specify an end date associated with a movie, after which date the movie can no longer be viewed, and is automatically deleted from the set-top box, 0182).

Re claim 27, Watson et al disclose wherein the storing at least one piece of pre-broadcast content further comprises storing the schedule(Any Movie news or Barker Channel content that has passed its end SCHEDULE_PERIOD date should be deleted,0216; that means it was stored locally).

Re claim 29, Watson et al disclose wherein the schedule includes at least one slot specifying a scheduled time and a piece of pre-broadcast content, wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: receiving at least one slot of the schedule at the apparatus, and wherein the accessing at least one piece of pre- broadcast content comprises accessing at least one piece of pre-broadcast content in accordance with the at least one slot received -at the apparatus(running set of videos seen while the user is on the user interface main menu, showing what products are available,0092).

Re claim 30, Watson et al disclose a method comprising: storing, in a memory of an apparatus, at least one piece of pre-broadcast content, the at least one piece of pre-broadcast content being stored before a scheduled time for broadcast of the same at least one piece of content by a content source, the scheduled time specified by a schedule(The movies are pushed down by the provider to reside passively in the box for a finite time period,0012; A movie may arrive and be stored in the set-top box, however it may have a start date associated with it which does not allow it to be viewed until that date,0014); and presenting the accessed at least one piece of pre-broadcast content consistent with the scheduled time for broadcast of the same at least one piece of content by the content source(see fig.4).

But did not explicitly disclose accessing at least one piece of pre-broadcast content from the memory of the apparatus no sooner than the scheduled time for broadcast of the same at least one piece of content.

However, Fujinami et al disclose accessing at least one piece of pre-broadcast content from the memory no sooner than the scheduled time for broadcast of the same at least one piece of content (each preloaded stream file stored in the receiving apparatus is synchronized with the clock transmitted from the broadcasting station to be reproduced, col.17, lines 13-16; that means user will get access to pre-loaded content according to the schedule received from the broadcast station).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch pre-loaded contents in real-time.

Re claim 31, is met as previously discussed with respect to claim 16.

Re claim 32, is met as previously discussed with respect to claim 17.

Re claim 33, is met as previously discussed with respect to claim 18.

Re claim 35, is met as previously discussed with respect to claim 20.

Re claim 36, is met as previously discussed with respect to claim 21.

Re claim 37, is met as previously discussed with respect to claim 22.

Re claim 38, is met as previously discussed with respect to claim 23.

Re claim 40, is met as previously discussed with respect to claim 25.

Re claim 42, is met as previously discussed with respect to claim 27.

Re claim 44, is met as previously discussed with respect to claim 29.

As claim 45, the claimed " a computer program product for providing broadcast content, the computer program product comprising a computer-readable storage medium having computer-readable program code portions stored therein that in

response to execution by a processor cause an apparatus to at least perform the following...; accessing at least one piece of pre-broadcast content from the memory of the apparatus no sooner than the scheduled time for broadcast of the same at least one piece of content..." is composed as the same structural elements as previously discussed with respect to the rejection of claim 15.

Re claim 46, is met as previously discussed with respect to claim 16.

Re claim 47, is met as previously discussed with respect to claim 17.

Re claim 48, is met as previously discussed with respect to claim 18.

Re claim 50, is met as previously discussed with respect to claim 20.

Re claim 51, is met as previously discussed with respect to claim 21.

Re claim 52, is met as previously discussed with respect to claim 22.

Re claim 53, is met as previously discussed with respect to claim 23.

Re claim 55, is met as previously discussed with respect to claim 25.

Re claim 57, is met as previously discussed with respect to claim 27.

Re claim 59, is met as previously discussed with respect to claim 29.

Re claim 60, Watson et al disclose a content source comprising a continuity server configured to maintain at least one piece of content and a schedule, wherein the schedule specifies at least one scheduled time for broadcast of the at least one piece of content by the content source, and wherein the content source is configured to broadcast the at least one piece of content in accordance with the schedule(the content delivery system is responsible for delivering data to set top boxes, 0044; see fig.1, digital asset management ; the distribution database contains content and component broadcast schedules, data cast distribution logs and set top box pre-load information, 0051) ; and

a terminal configured to store, in a memory, at least one piece of pre-broadcast content comprising the same at least one piece of content maintained by the continuity server, the terminal being configured to store the at least one piece of pre-broadcast

content before the scheduled time for broadcast of the same at least one piece of content(The set-top box has a processor which is capable of receiving the data stream from the broadcast signal, reassembling data, and writing data to the hard drive, 0011), and

thereafter present the accessed at least one piece of pre-broadcast content consistent with the scheduled time for broadcast of the same at least one piece of content by the content source (see fig.4).

But did not explicitly disclose wherein the terminal is configured to access the at least one piece of pre-broadcast content from the memory no sooner than the scheduled time for broadcast of the same at least one piece of content.

However, Fujinami et al disclose wherein the terminal is configured to access the at least one piece of pre-broadcast content from the memory no sooner than the scheduled time for broadcast of the same at least one piece of content(each preloaded stream file stored in the receiving apparatus is synchronized with the clock transmitted from the broadcasting station to be reproduced, col.17, lines 13-16; that means user will get access to pre-loaded content according to the schedule received from the broadcast station).

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to incorporate the teaching of Fujinami into the invention of Watson for the purpose of allowing users to watch pre-loaded contents in real-time.

Re claim 61, is met as previously discussed with respect to claim 16.

Re claim 62, Watson et al disclose wherein the terminal is configured to store the at least one piece of pre-broadcast content before the content source broadcasts the

same at least one piece of content(The movies are pushed down by the provider to reside passively in the box for a finite time period, 0012).

Re claim 63, Watson et al disclose wherein the content source is configured to send, to the terminal, the at least one piece of content maintained by the continuity server and wherein the terminal is configured to receive and store the received at least one piece of content as the at least one piece of pre-broadcast content(the method involves transmitting movies to a set-top box and allowing movies to accumulate. A hard disk drive in the set-top box is used to store movies, 0008; 0012; the method involves transmitting movies to a set-top box; the content delivery system is responsible for delivering data to set top boxes, 0044).

Re claim 64, Watson et al disclose wherein the content source is configured to at least one of encode or transcode the at least one piece of content and the schedule before sending the at least one piece of content and the schedule to the terminal, and wherein when the content source encodes the at least one piece of content, the terminal is configured to receive the encoded at least one piece of content, and thereafter decode the encoded at least one piece of content(see fig.1f, PES Decryption/De-scramble; the set top box allows for the movie to be decrypted and played, 0015; see fig.1, content preparation & encoding; Movies are transmitted to the set-top box using a new data casting technology which allows data to be encoded onto standard television signals and transmitted using existing television transmitters and broadcast towers, 0012).

Re claim 65, is met as previously discussed with respect to claim 21.

Re claim 66, Watson et al disclose wherein the terminal is configured to release each piece of pre-broadcast content when a current time of the terminal matches the scheduled time for broadcast of the same piece of content by the content source, and wherein the terminal is configured to access at least one released piece of pre-broadcast content (The actual movie content on the hard disk drive is turned over

periodically, as scheduled by the digital asset manager, 0092; that means pre-stored contents are activated according to predefined schedule).

Re claim 67, Watson et al disclose wherein the content source is configured to broadcast the at least one piece of content when a current time of the content source matches the at least one scheduled time, and wherein the terminal is also configured to synchronize the current time of the terminal with the current time of the content source(movie content on the hard disk drive is turned over periodically, as scheduled by the digital asset manager, that means there is synchronization in the schedule where stored schedule in the set-top box needs to match the schedule at the digital asset manager,0092).

Re claim 69, Watson et al disclose wherein the terminal is also configured to expire each released piece of pre-broadcast content when the current time is subsequent to the scheduled time, and wherein the terminal is configured to delete, from the memory, at least one expired piece of pre-broadcast content (the content provider may specify an end date associated with a movie, after which date the movie can no longer be viewed, and is automatically deleted from the set-top box, 0182).

Re claim 71, Watson et al disclose wherein the terminal is also configured to store a schedule comprising the same schedule maintained by the continuity server(see fig.1a, scheduler; Any Movie news or Barker Channel content that has passed its end SCHEDULE_PERIOD date should be deleted,0216; that means it was stored locally).

Re claim 73, Watson et al disclose wherein the schedule includes at least one slot specifying a scheduled time and a piece of pre-broadcast content, wherein the terminal is configured to receive at least one slot of the schedule, and wherein the terminal is configured to access at least one piece of pre-broadcast content in accordance with the at least one slot received by the terminal(running set of videos seen while the user is on the user interface main menu, showing what products are available,0092).

Claims 24,26, 28, 39,41, 43, 54, 56, 58, 68, 70, 72 are rejected under 35 U.S.C. 103(a) as being unpatentable over Watson et al in view of Fujinami et al further in view Connelly et al, US No. 7284064.

Re claim 24, Watson et al disclose wherein memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following expiring each released piece of pre-broadcast content when the current time is subsequent to the scheduled time (Movie Expirations, 0304; the movies are pushed down by the provider to reside passively in the box for a finite time period, 0012).

But did not explicitly disclose maintaining, in the memory of the apparatus, at least one expired piece of pre-broadcast content.

However, Connelly et al disclose if a user has not watched a particular piece of content, the storage space occupied by that piece of content is generally considered not to be available for storage of another piece of content, col.14, lines 56-59; that means expired contents can stay in the hard drive for a while if not watched yet.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing keep expired content in storage, as taught by Connelly, for the purpose of allowing users to watch passed programs.

Re claim 26, Watson et al disclose wherein deleting at least one expired piece of pre-broadcast content comprises overwriting at least one expired piece of pre-broadcast content with at least one subsequent piece of pre-broadcast content (the content provider may specify an end date associated with a movie, after which date the movie can no longer be viewed, and is automatically deleted from the set-top box, 0182).

But did not explicitly disclose wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: maintaining at least one expired piece of pre-broadcast content in the memory of the apparatus.

However, Connelly et al disclose if a user has not watched a particular piece of content, the storage space occupied by that piece of content is generally considered not to be available for storage of another piece of content, col.14, lines 56-59; that means expired contents can stay in the hard drive for a while if not watched yet.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing keep expired content in storage, as taught by Connelly, for the purpose of allowing users to watch passed programs.

Re claim 28, Watson et al disclose wherein the schedule includes at least one slot specifying broadcast of a selectable piece of pre-broadcast content at a respective scheduled time, wherein the memory stores executable instructions that in response to execution by the processor cause the apparatus to further perform the following: receiving a selection of at least one piece of pre-broadcast content for the at least one slot(Once a movie has been selected,0227; running set of videos seen while the user is on the user interface main menu, showing what products are available,0092).

But did not explicitly disclose modifying the schedule to specify the selected at least one piece of pre-broadcast content in the at least one slot.

However, Connelly et al disclose broadcast schedules can change over time depending on which data files are available from the server and which content or data files are accessed and/or classified by the clients, col.15, lines 11-14.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing modify the schedule, as taught by Connelly, for the purpose of allowing the system to update the schedule according to selection of the users.

Re claim 39, is met as previously discussed with respect to claim 24.

Re claim 41, is met as previously discussed with respect to claim 26.

Re claim 43, is met as previously discussed with respect to claim 28.

Re claim 54, is met as previously discussed with respect to claim 24.

Re claim 56, is met as previously discussed with respect to claim 26.

Re claim 58, is met as previously discussed with respect to claim 28.

Re claim 68, Watson et al disclose wherein the terminal is also configured to expire each released piece of pre-broadcast content when the current time is subsequent to the scheduled time(Movie Expirations, 0304; the movies are pushed down by the provider to reside passively in the box for a finite time period, 0012).

But did not explicitly disclose wherein the terminal is configured to maintain, in the memory, at least one expired piece of pre-broadcast content.

However, Connelly et al disclose if a user has not watched a particular piece of content, the storage space occupied by that piece of content is generally considered not to be available for storage of another piece of content, col.14, lines 56-59; that means expired contents can stay in the hard drive for a while if not watched yet.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing keep expired content in storage, as taught by Connelly, for the purpose of allowing users to watch passed programs.

Re claim 70, Watson et al disclose wherein the terminal is configured to overwrite at least one expired piece of pre-broadcast content with at least one subsequent piece of pre-broadcast content (the content provider may specify an end date associated with a movie, after which date the movie can no longer be viewed, and is automatically deleted from the set-top box, 0182).

But did not explicitly disclose wherein the terminal is configured to maintain at least one expired piece of pre-broadcast content in the memory of the terminal.

However, Connelly et al disclose if a user has not watched a particular piece of content, the storage space occupied by that piece of content is generally considered not to be available for storage of another piece of content, col.14, lines 56-59; that means expired contents can stay in the hard drive for a while if not watched yet.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing keep expired content in storage, as taught by Connelly, for the purpose of allowing users to watch passed programs.

Re claim 72, Watson et al disclose wherein the schedule includes at least one slot specifying broadcast of a selectable piece of pre-broadcast content at a respective scheduled time, wherein the terminal is configured to receive a selection of at least one piece of pre-broadcast content for the at least one slot (Once a movie has been selected, 0227; running set of videos seen while the user is on the user interface main menu, showing what products are available, 0092).

But did not explicitly disclose thereafter modify the schedule to specify the selected at least one piece of pre-broadcast content in the at least one slot.

However, Connelly et al disclose broadcast schedules can change over time depending on which data files are available from the server and which content or data files are accessed and/or classified by the clients, col.15, lines 11-14.

It would have been obvious for any person of ordinary skill in the art at that time the invention was made to modify the invention of Watson in view of Fujinami in introducing modify the schedule, as taught by Connelly, for the purpose of allowing the system to update the schedule according to selection of the users.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jean Duclos Saintcyr whose phone number is 571-270-3224. The examiner can normally reach on M-F 7:30-5:00 PM EST. If attempts to reach the examiner by telephone are not successful, his supervisor, Brian Pendleton, can be reached on 571-272-7527. The fax number for the organization where the application or proceeding is assigned is 571-273-8300. Information regarding the status of an application may be obtained from the Patent Application Retrieval (PAIR) system. Status information for published applications may be obtained from either private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, dial 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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